



features

- Meets IEC60127-4 specifications (7A or less)
- Stable fusing characteristics due to original technology
- Suitable for reflow and flow soldering
- Marking: White body color with black marking
- Products meet EU RoHS requirements

dimensions and construction



| Type | Dimensions inches (mm) | | | |
|---------------------|------------------------|------------------------|------------------------|------------------------|
| | L | W | t | c |
| CCF1F (2410) | .240±.008 (6.1±0.2) | .098±.008 (2.5±0.2) | .098±.008 (2.5±0.2) | .055±.008 (1.4±0.2) |

ordering information

| | | | | | | |
|------------|------------|----------|---|---------------|---------------------------------------|---|
| New Part # | CCF | 1 | F | 1 | T | TE |
| | Type | Style | Fusing Characteristic F: Fast-acting | Rated Current | Termination Surface Material T: Sn | Packaging TE: 4mm pitch plastic embossed BK: Bulk |

applications and ratings

| Part Designation | Current Rating | Voltage Rating | Interrupting Capacity | Fusing Characteristics | | Internal R. (mΩ) Max. | Normal Melting I _t (A; sec.) | Operating Temperature Range |
|------------------|----------------|--------------------------------|--------------------------------------|--------------------------|------------------------------|-----------------------|---|-----------------------------|
| | | | | Rated Current | Fusing Time | | | |
| CCF1F0.4 | 0.4A | UL(c-UL) AC 125V DC 125V | UL(c-UL) AC125V 50A DC125V 50A | UL(c-UL) 100% 200% | 4 hour min. 120 sec. max. | 650 | 0.024 | -55°C to +125°C |
| CCF1F0.5 | 0.5A | | | | | 510 | 0.030 | |
| CCF1F0.63 | 0.63A | | | | | 390 | 0.052 | |
| CCF1F0.8 | 0.8A | | | | | 250 | 0.125 | |
| CCF1F1 | 1A | | | | | 90.4 | 0.156 | |
| CCF1F1.25 | 1.25A | | | | | 75.9 | 0.220 | |
| CCF1F1.6 | 1.6A | | | | | 59.3 | 0.513 | |
| CCF1F2 | 2A | | | | | 42.9 | 0.814 | |
| CCF1F2.5 | 2.5A | | | | | 36.6 | 1.31 | |

For further information on packaging, please refer to Appendix A.

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

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applications and ratings (continued)

| | Part Designation | Current Rating | Voltage Rating | Interrupting Capacity | Fusing Characteristics | | Internal R. (mΩ) Max. | Normal Melting Pt (A², sec.) | Operating Temperature Range |
|----------------|------------------|----------------|--------------------------------|--------------------------------------|--------------------------|------------------------------|-----------------------|------------------------------|-----------------------------|
| | | | | | Rated Current | Fusing Time | | | |
| UNDER DEVELOP. | CCF1F3.15 | 3.15A | UL(c-UL) AC 125V DC 125V | UL(c-UL) AC125V 50A DC125V 50A | UL(c-UL) 100% 200% | 4 hour min. 120 sec. max. | 26.0 | 2.37 | -55°C to +125°C |
| | CCF1F4 | 4A | | | | | 20.1 | 3.85 | |
| | CCF1F5 | 5A | | | | | 15.3 | 6.5 | |
| | CCF1F6.3 | 6.3A | | | | | 11.4 | 10.6 | |
| | CCF1F7 | 7A | | | | | 10.6 | 12.8 | |
| | CCF1F8 | 8A | | | | | 9.5 | 17.0 | |
| | CCF1F10 | 10A | 7.5 | 27.7 | | | | | |
| | CCF1F12 | 12A | UL(c-UL) AC 65V DC 65V | UL(c-UL) AC65V 50A DC65V 50A | 4.5 | 73.5 | | | |
| | CCF1F15 | 15A | | | 3.5 | 125.5 | | | |

environmental applications

Derating Curve



Stationary Current: Regard the peak of stationary current waveform as stationary current value when the stationary current is repeated pulse. Normal derating of this product should be 0.7max. as standards.

Deratings by ambient temperatures. When using the products at the temperatures other than normal temperature (25°C ± 5°), temperature adjustment will be required. Please refer the derating coefficient as shown in the figure.

Fusing Characteristics



Performance Characteristics

| Parameter | Requirements Limit | Ref. | Test |
|-------------------------------|---|-------------------|--|
| | | | Test Method |
| Fusing Characteristics | Within specified time. Insulation resistance shall not be less than 0.1MΩ | IEC60127-4 9.2 | Fusing time measured under 2/N (rated current 200%) and 10/N (rated current 1000%) |
| Surface Temperature Rise | Maximum temperature rise 75°C and not fusing (all the rating) | UL248.14 | Surface temperature should be measured by 1.00/N |
| Voltage Drop | Refer to ratings table | IEC60127-4 9.1 | When the fuse-link has carried its rated current for a time sufficient to reach temperature stability |
| Maximum Sustained Dissipation | Refer to ratings table | IEC60127-4 9.5 | At the end of electrify test to 1.25/N the voltage drop across the fuse-link is measured and used for the calculation of the sustained dissipation |
| Bending Test | Shall not exceed the ratings table | IEC60127-4 8.3 | Distance between holding points 90mm, bent by 1mm at rate of 1mm/second |
| Resistance to Soldering Heat | Shall not exceed the ratings table | IEC60127-4 8.7 | 260°C ± 5°C, 10 seconds ± 0.5 seconds. After the solder depth, voltage drop across the fuse-link is measured |
| Load Life | ΔR±10% | ±2% | 70°C ± 2°C, 1000 hours, rated current x 70%, 1.5 hr ON, 0.5 hr OFF cycle |
| Load Life Moisture | ΔR±10% | ±3% | 40°C ± 2°C, 90 - 95% RH, 1000 hours, rated current x 70%, 1.5 hr ON, 0.5 hr OFF cycle |
| Rapid Change of Temperature | ΔR±10% | ±2% | -55°C (30 minutes), +125°C (30 minutes), 100 cycles |

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